

Message Text

UNCLASSIFIED

PAGE 01 RECIFE 00100 232120Z
ACTION ARA-14

INFO OCT-01 ISO-00 SOE-02 AID-05 CEA-01 CIAE-00
COME-00 DODE-00 EB-08 DOE-15 H-02 INR-10 INT-05
L-03 NSAE-00 NSC-05 OMB-01 PM-05 ICA-20 OES-07
SP-02 SS-15 STR-07 TRSE-00 ACDA-12 /140 W
-----092613 240558Z/15

R 231330Z MAY 78
FM AMCONSUL RECIFE
TO SECSTATE WASHDC 5878
INFO AMEMBASSY BRASILIA
AMCONSUL RIO DE JANEIRO

UNCLAS RECIFE 0100

E.O. 11652: N/A
TAGS: TOCY, BR
SUBJ: OCEAN THERMAL ENERGY PROJECT

1. RETIRED U.S. NAVY CAPTAINS JACK EVANS, GEORGE STEVENS AND J.D. WARD TOGETHER WITH ENGINEER TITO L. VILLARREAL VISITED RECIFE MAY 18-24 TO GATHER PRELIMINARY INFORMATION FOR AN OCEAN THERMAL ENERGY CONVERSION (OTEC) PROJECT TO PRODUCE ANHYDROUS AMMONIA FROM OCEAN WATER. THEY SAID THEY ARE EMPLOYEES OF THE COMPUTER SCIENCES SERVICES CORPORATION OF MISSISSIPPI THAT HAS A CONTRACT WITH NOAA'S NATIONAL SPACE TECHNOLOGY LABORATORIES AND THE DEPARTMENT OF ENERGY. THEIR ADDRESS IS OCEAN SYSTEMS ENGINEERING, NATIONAL SPACE TECHNOLOGY LABORATORIES, MISSISSIPPI 39529.

2. THE OTEC TEAM SAID THAT OTEC DEMONSTRATION PROJECTS WERE PLANNED OFF THE COAST OF MEXICO AND/OR RECIFE, BRAZIL. THEY SAID THAT THEY HAD CONTACTED THE BRAZILIAN NAVY HYDROGRAPHIC OFFICE IN RIO WHICH EXPRESSED INTEREST IN COOPERATING WITH THEM ON THE PROJECT. THEY ARE GATHERING INFORMATION WITH THE TARGET OF HAVING A DATA GATHERING OTEC BUOY OR SHIP IN PLACE IN EIGHT MONTHS 250 MILES OFF SHORE RECIFE AND PRODUCTION OF ANHYDROUS UNCLASSIFIED

UNCLASSIFIED

PAGE 02 RECIFE 00100 232120Z

AMMONIA BEGINNING IN 1982.

3. THE CONSULATE PROVIDED THE OTEC TEAM WITH BASIC INFORMATION AND ASSISTED IT IN CONTACTS WITH A SHIP SUPPLIER AND THE DIRECTOR OF THE OCEANOGRAPHIC INSTITUTE OF THE FEDERAL UNIVERSITY OF PERNAMBUCO. AFTER A SECOND INFORMATION GATHERING VISIT THEY PLAN TO CONTRACT NEEDED SERVICES FOR A DATA GATHERING BUOY OR

ON-STATION SHIP THROUGH THE SHIP SUPPLIER OR THE UNIVERSITY.

4. THE OTEC TEAM IS OFF TO A GOOD START IN GETTING THIS PROJECT UNDER WAY WITH MINIMUM DELAY. THEY HAVE BEEN MADE AWARE THAT BRAZILIAN NAVY APPROVAL EVENTUALLY WILL BE NEEDED. THEY WOULD LIKE TO HAVE A JOINT PROJECT WITH A BRAZILIAN INSTITUTION AND WOULD WELCOME THE BRAZILIAN GOVERNMENT APPROVAL.

5. THIS PROJECT IN THE FIELD OF NON-NUCLEAR ENERGY APPEARS TO OFFER AN ATTRACTIVE OPPORTUNITY FOR A JOINT PROGRAM WITH THE GOB ENTAILING TECHNOLOGY TRANSFER. PERHAPS CONVERSATIONS SHOULD BE INITIATED PROMPTLY AT THE NATIONAL GOVERNMENT LEVEL LOOKING TO EARLY AGREEMENT ON THIS PROJECT.

HOFFENBERG

UNCLASSIFIED

NNN

Message Attributes

Automatic Decaptoning: X
Capture Date: 01 jan 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: ENERGY, SCIENTIFIC COOPERATION, OCEANS, PROGRAMS (PROJECTS)
Control Number: n/a
Copy: SINGLE
Draft Date: 23 may 1978
Decapton Date: 01 jan 1960
Decapton Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01 jan 1960
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1978RECIFE00100
Document Source: CORE
Document Unique ID: 00
Drafter: n/a
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Expiration:
Film Number: D780218-0505
Format: TEL
From: RECIFE
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1978/newtext/t19780529/aaaaaxzn.tel
Line Count: 76
Litigation Code IDs:
Litigation Codes:
Litigation History:
Locator: TEXT ON-LINE, ON MICROFILM
Message ID: d28c4698-c288-dd11-92da-001cc4696bcc
Office: ACTION ARA
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 2
Previous Channel Indicators: n/a
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: n/a
Retention: 0
Review Action: RELEASED, APPROVED
Review Content Flags:
Review Date: 29 mar 2005
Review Event:
Review Exemptions: n/a
Review Media Identifier:
Review Release Date: N/A
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
SAS ID: 2602522
Secure: OPEN
Status: NATIVE
Subject: OCEAN THERMAL ENERGY PROJECT
TAGS: TOCY, TGEN, BR, (EVANS, JACK), (STEVENS, GEORGE), (WARD, J D), (VILLARREAL, TITO L)
To: STATE
Type: TE
vdkvgwkey: odbc://SAS/SAS.dbo.SAS_Docs/d28c4698-c288-dd11-92da-001cc4696bcc
Review Markings:
Sheryl P. Walter
Declassified/Released
US Department of State
EO Systematic Review
20 Mar 2014
Markings: Sheryl P. Walter Declassified/Released US Department of State EO Systematic Review 20 Mar 2014